Silent Guard®
Noise Reducing Windows

by THERMAL Windows & Doors

Designed for Your Life. Guaranteed.™

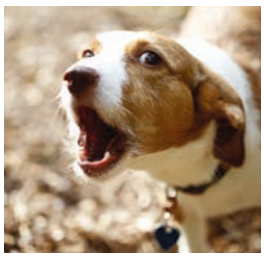
Premium Vinyl

Replacement Windows

Silent Guard® Double Hung windows

Silent Guard®

Noise Reducing Windows



Introducing the Silent Guard® Window –

a replacement window line specifically manufactured with our noise-reducing technology. The Silent Guard Window is engineered to provide the optimum performance for your budget and your specific sound control need. These windows outperform wood windows in thermal performance and structural integrity. And of course Silent Guard Windows come with the maintenance reduction you have come to expect from us.

Thermal Windows and Doors. **Designed for Your Life. Guaranteed.™**

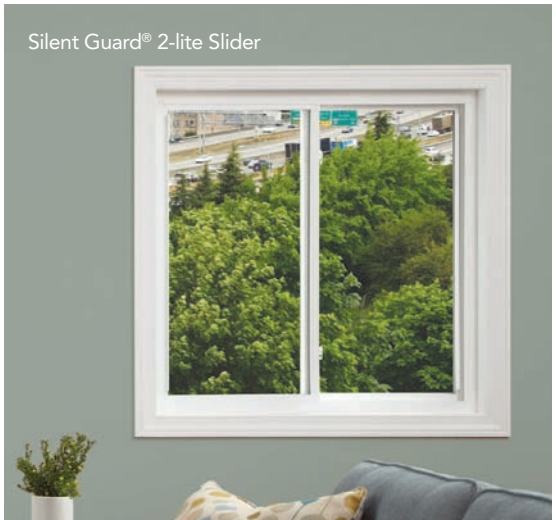
VOLUME CONTROL FOR THE HOME

Silent Guard®
Noise Reducing Windows

SILENT GUARD® SOUND REDUCTION

Silent Guard® Sound Reduction Windows provide enhanced noise abatement performance to the Silent Guard Window. Sounds are measured in decibels (dBs). An STC rating is assigned to a window or door to designate its capacity to block sound. The higher the decibel the higher the STC rating needed. Typical windows have STC ratings in the 25-28 range. By comparison, the Silent Guard Window family has an STC rating of 34, **reducing exterior sound by 43%** when *compared to the average single pane aluminum window.

Sound transmission class (STC) ratings give a single value to acoustical performance for a window. STC is determined by a weighted average of Sound Transmission Loss (TL) values taken over 16 frequencies, which are fitted to a curve in a method defined by the ASTM E413 Classification Standard for Rating Sound Insulation. The higher the STC value, the better the rating and the better the performance.



REDUCE EXTERIOR NOISE BY 43%

Silent Guard® Double Hung and Picture windows

Motorcycle, Garbage Truck, Power Tools: 100dB

34 STC — REDUCES NOISE TO 57dB*

Train or Siren: 110dB

34 STC — REDUCES NOISE TO 63dB*

Lawn Mower: 90dB

34 STC — REDUCES NOISE TO 51dB*

Barking Dog: 70dB

34 STC — REDUCES NOISE TO 40dB*

Turn the Outside Volume Down with Silent Guard®

When sound control is needed, Silent Guard Windows offer advanced noise control performance for the majority of annoying sounds that routinely affect us all. From barking dogs to loud lawn mowers, the STC 34 rated Silent Guard option is designed to control these most common nuisances.

Loud Neighbors: 65dB

34 STC — REDUCES NOISE TO 37dB*

40 dB is the level listed for a quiet residential neighborhood.

OSHA Permissible Exposure Limits

Silent Guard®

Noise Reducing Windows

Noise Abatement Feature

The glass system in the Silent Guard Window is specially designed to provide noise abatement through the use varying glass thicknesses. As sound waves travel through different types and thicknesses of glass, they are broken into different frequencies, thereby reducing their intensity. Silent Guard Double Hung Windows feature a dual-glaze 13/16-inch thick insulating glass unit, with one lite of 3/16" glass and one lite of 1/8" glass.

DOUBLE HUNG

Silent Guard
Double Hung
34 STC rating

SLIDERS

Silent Guard 2-lite Slider
34 STC rating

PICTURE WINDOW

Silent Guard Picture Window
34 STC rating

HERE A JUST A FEW OF THE SILENT GUARD WINDOW FEATURES:

Energy Savings

- **Peak Performance™ Glass** contains dual panes with Low-E, enhanced with argon gas and a warm-edge spacer system for exceptional thermal performance
- **Dual compression seals** prevent air infiltration
- **Weather-Stripping** virtually eliminates air and water infiltration
- **Fully interlocking sashes** prevent air infiltration at meeting rail
- **Foam Inserts** combined with dead air space chambers boost thermal properties
- **Dual FoamTite™ Seals on Sill** prevent air infiltration

Corner cut of the Silent Guard Window showing the advanced noise abatement design

Built to Last

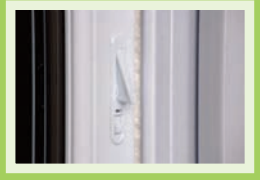
- **Solid Vinyl Construction** will not chip, peel or rot and never requires scraping or painting
- **Compression Fit Fusion-Welded Mainframe and Sashes** for maximum strength and reduced air infiltration
- **Parallel I-Beam Construction** provides increased strength, durability and structural integrity
- **Multi-Chambered Construction** provides enhanced structural integrity
- **Integral Pocket Header** provides clean interior appearance and prevents air infiltration
- **Sloped sill and dual drainage** with weep system that significantly improves water drainage

Life Made Easier

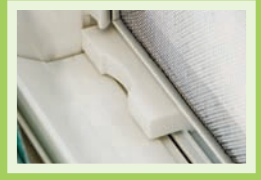
- **Lifetime Warranty, Lifetime Insulating Glass Warranty, Lifetime Glass Breakage Warranty and Lifetime Screen Warranty** for your peace of mind
- **Balance covers** provide a clean, aesthetically pleasing appearance
- **Extruded vinyl lift rails** for easy sash operation
- **Beveled screen track** stiffens frame and enables easy screen removal
- **Dual night latches** for ventilation
- **Tilt Latches** make it easier to clean your windows
- **Locking Fiberglass Half Screen** is standard*
- **Locking Zinc Pivot Pins (Double Hung)** prevent accidental sash removal while cleaning your windows

Tilt Latch

Cam Action Lock



Night Latch



Locking Half Screen

Silent Guard® 2-lite Slider

SILENT GUARD WINDOW OPTIONS:

Vinyl Color Options**

White
Interior/Exterior

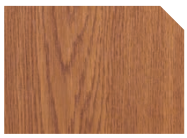
Earthtone
Interior/Exterior

Brown Laminate***
Exterior/
White Interior

WoodGrain Interior Options**

Natural Oak****
(Optional)

Golden Oak*****
(Optional)



Dark Oak*****
(Optional)
Paintable/Stainable

Painted Exterior Finished Options**

Custom color match is available

American Clay

Terratone

Safari Brown

Gray

Green

Brick Red

Hardware Finishes**

Brushed Nickel

Brass

Mocha*******

Silent Guard® windows
STC rating 34

The STC 34 rated Silent Guard Window was designed to control most common noise nuisances. For even more sound control, Silent Guard offers an advanced line of window products with higher STC ratings that go as high as STC 48 – an industry leading performance mark. See your Thermal Windows & Doors representative for more information.

Grid Options

Choose from a variety of between the glass grid options. Grid options include:

5/8" flat

5/8" contoured

Screen Options*

Locking fiberglass half screens come standard with double hung windows, or choose from:

- Half screen: in charcoal aluminum or Invisi-Screen®
- Locking half screen: in charcoal aluminum or Invisi-Screen®
- Full screen: in fiberglass, charcoal aluminum or Invisi-Screen®

Manufacturer reserves the right to substitute components as necessary. *Screens are not meant to restrain a child from falling through an open window. **Printing process may affect color shown. Please refer to actual window sample when selecting colors. The availability of dark color options can vary by region. Ask your sales representative for details. ***Brown Laminate Exterior is not available with Woodgrain Interior Finishes. Exterior may be painted if Brown color is desired. Additional charges apply. ****Earthtone lock comes standard. *****Mocha lock comes standard. ******Standard on Golden and Dark Oak. Not available on White and Earthtone.

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